Elastase IIIB/CELA3B Protein, Mouse (Myc, His)

Cat. No.:	HY-P71638
Synonyms:	Cela3b; Ela3; Ela3b; Chymotrypsin-like elastase family member 3B; EC 3.4.21.70; Elastase IIIB; Elastase-3B; Protease E
Species:	Mouse
Source:	E. coli
Accession:	Q9CQ52 (28V-269N)
Gene ID:	67868
Molecular Weight:	Approximately 31.1 kDa

PROPERTIES

AA Sequence	V V N G E E A V P H S W P W Q V S L Q Y E K D G S F H H T C G G S L I T P D W V L T A G H C I S T S R T Y Q V V L G E H E R G V E E G Q E Q V I P I N A G D L F V H P K W N S M C V S C G N D I A L V K L S R S A Q L G D A V Q L A C L P P A G E I L P N G A P C Y I S G W G R L S T N G P L P D K L Q Q A L L P V V D Y E H C S R W N W W G L S V K T T M V C A G G D I Q S G C N G D S G G P L N C P A D N G T W Q V H G V T S F V S S L G C N T L R K P T V F T R V S A F I D W I E E T I A N N
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Elastase IIIB, also known as CELA3B, is an efficient protease with a notable specificity for alanine but exhibits only limited elastolytic activity. This enzyme is characterized by its ability to cleave peptide bonds specifically at alanine residues, indicating a preference for substrates containing this amino acid. While it does not demonstrate strong elastolytic activity, its efficient proteolytic function suggests a role in the targeted cleavage of proteins containing alanine residues. The unique

	substrate specificity of Elastase IIIB/CELA3B underscores its distinctive role in proteolytic processes within biological systems.

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